

FIG.1

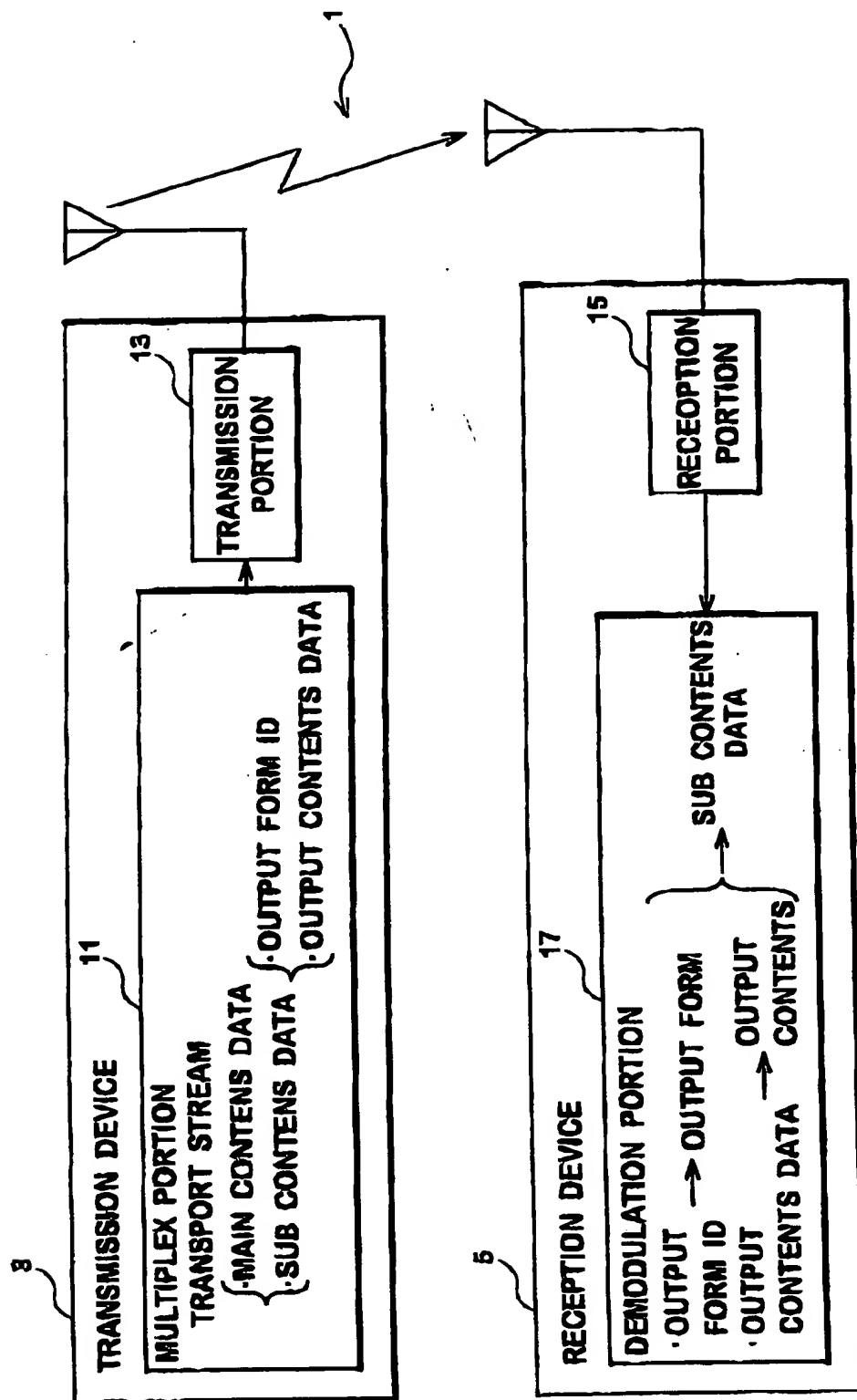
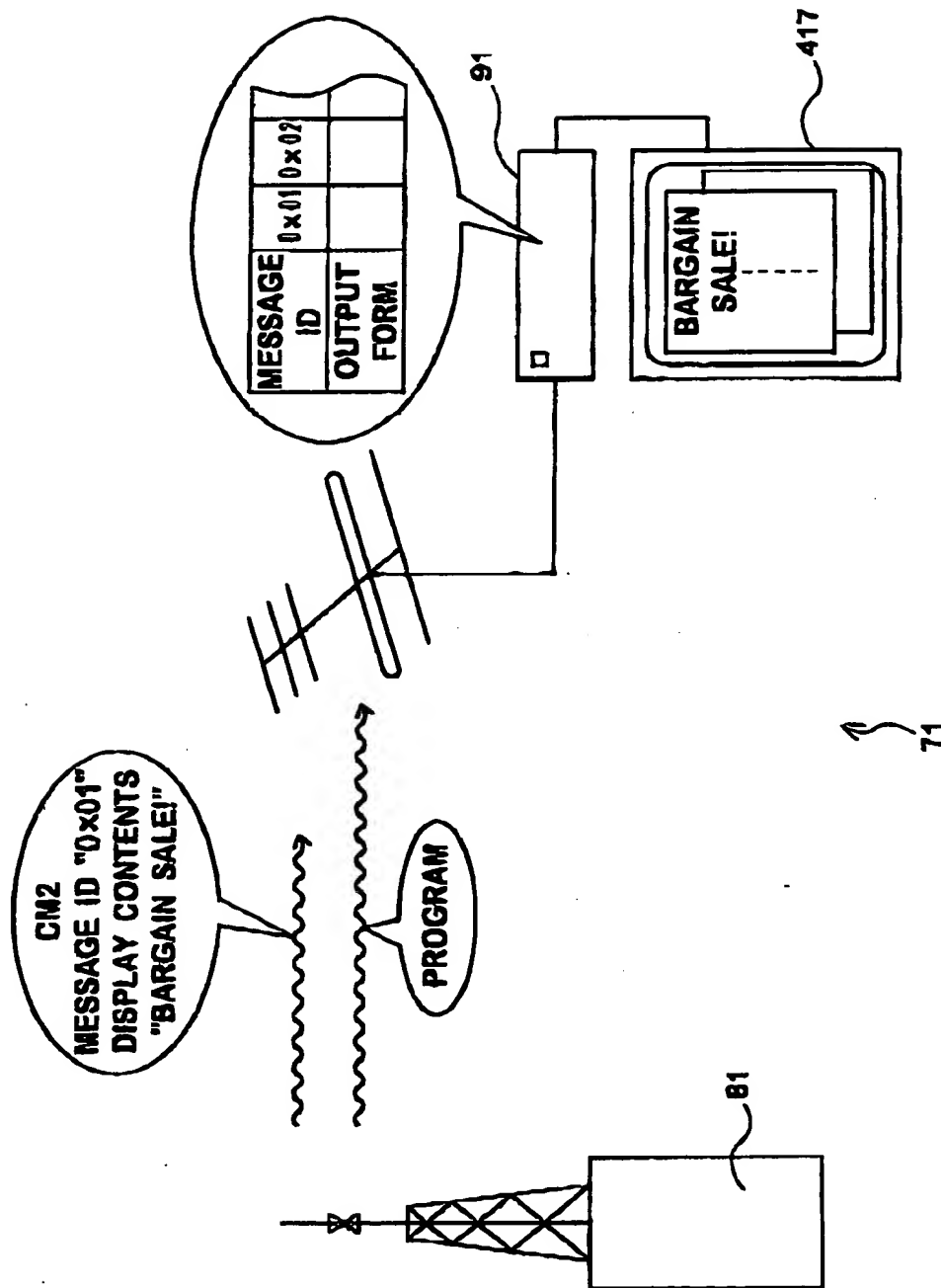
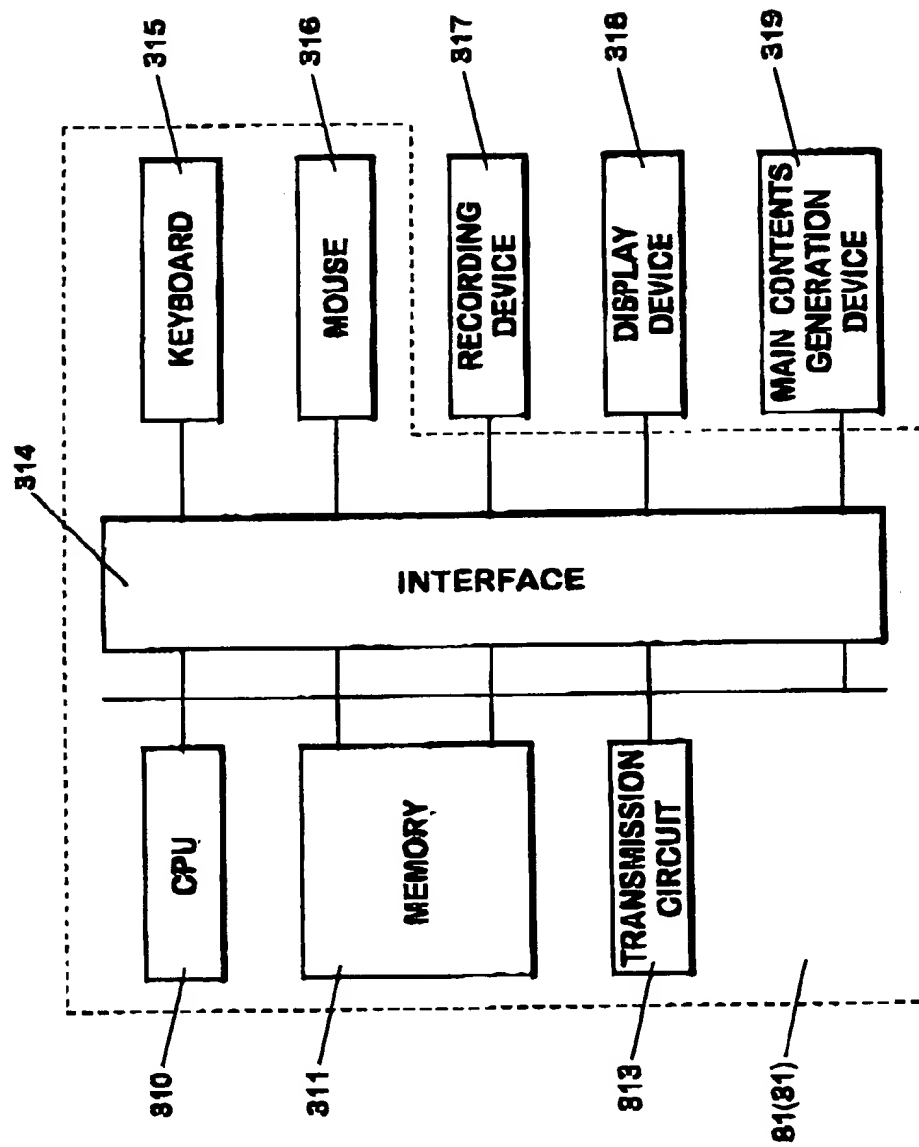


FIG.2



# HARDWARE STRUCTURE OF DIGITAL BROADCAST TRANSMISSION DEVICE 81



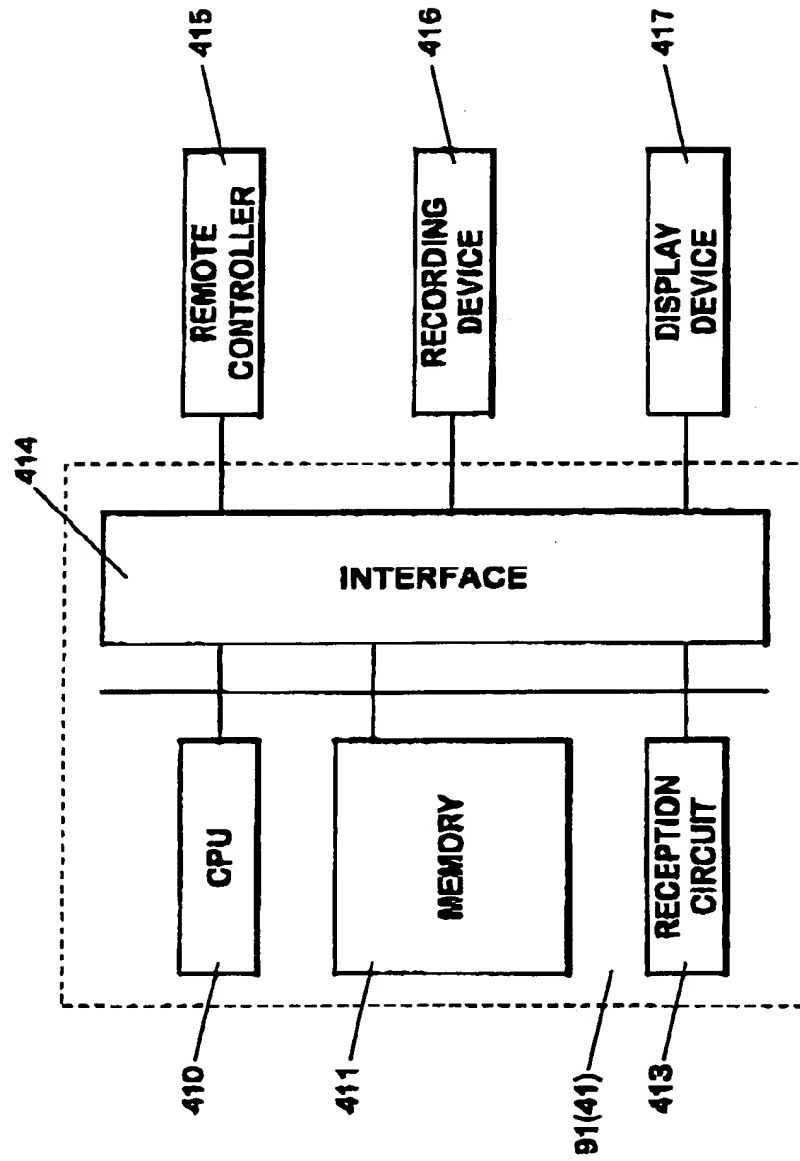
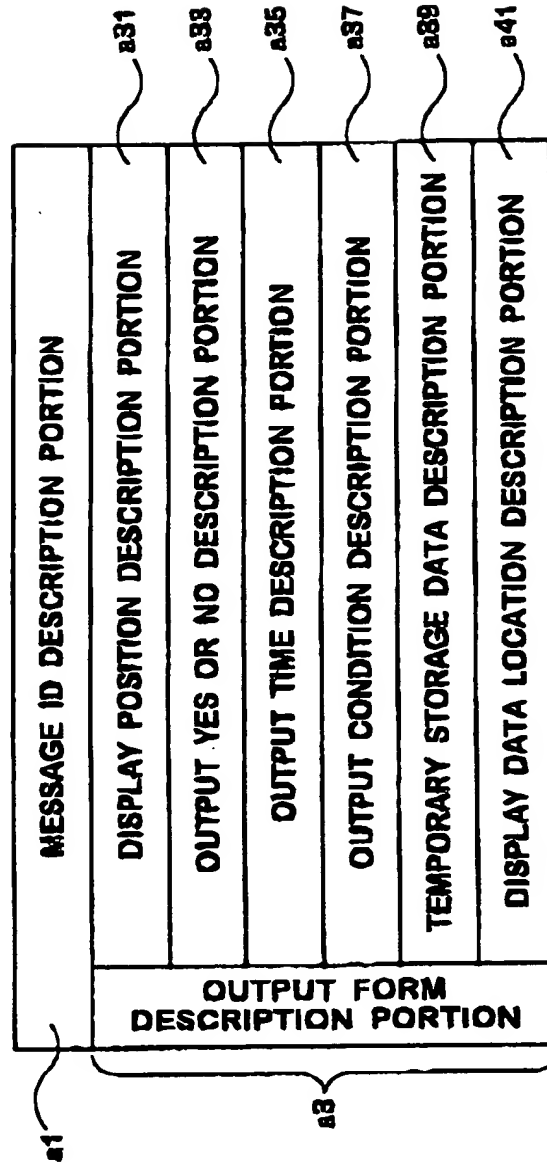
**FIG.4****HARDWARE STRUCTURE OF DIGITAL BROADCAST RECEPTION DEVICE 91**

FIG. 5

DATA STRUCTURE OF THE REFERENCE TABLE  
OF THE MESSAGE ID AND THE DISPLAY FORM



0005 11AL 8 3 01

FIG.6

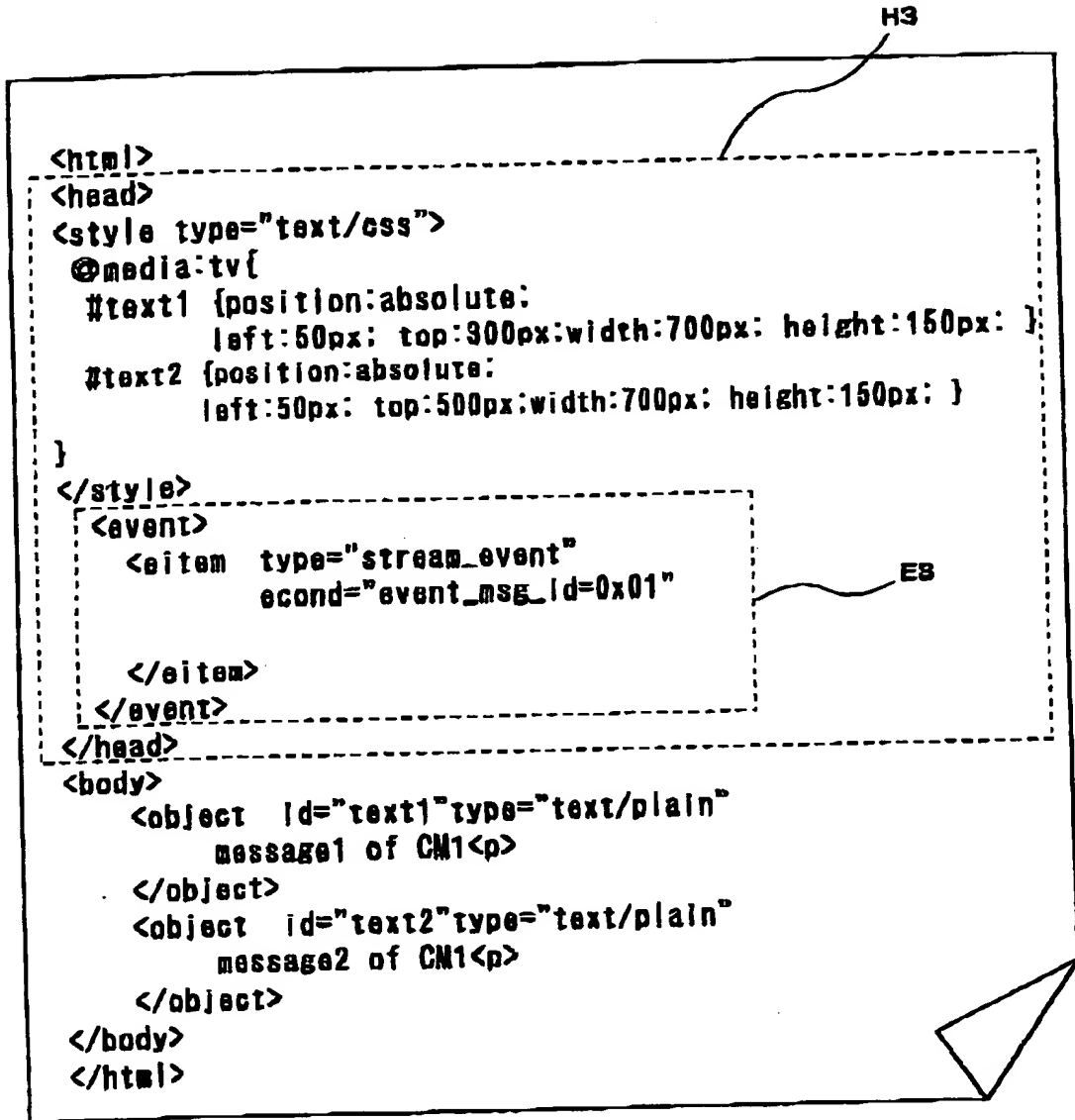
EXAMPLE OF THE REFERENCE TABLE OF THE MESSAGE ID AND OUTPUT FORM

| ID                        | b1                        |                           | b2                        |                           | b3                         |                            | b4                         |                            | b5                         |                            | T3                         |                            |
|---------------------------|---------------------------|---------------------------|---------------------------|---------------------------|----------------------------|----------------------------|----------------------------|----------------------------|----------------------------|----------------------------|----------------------------|----------------------------|
|                           | 0x01                      | 0x02                      | 0x03                      | 0x04                      | 0x05                       | 0x06                       | 0x07                       | 0x08                       | 0x09                       | 0x0A                       | 0x0B                       | 0x0C                       |
| ACTIVE                    | ACTIVE                    | ACTIVE                    | ACTIVE                    | ACTIVE                    | ACTIVE                     | ACTIVE                     | ACTIVE                     | ACTIVE                     | ACTIVE                     | ACTIVE                     | ACTIVE                     | ACTIVE                     |
| OUTPUT                    | OUTPUT                    | NO OUTPUT                 | NO OUTPUT                 | NO OUTPUT                 | NO OUTPUT                  | NO OUTPUT                  | NO OUTPUT                  | NO OUTPUT                  | NO OUTPUT                  | NO OUTPUT                  | NO OUTPUT                  | NO OUTPUT                  |
| MESSAGE ID RETRIEVAL TIME | MESSAGE ID RETRIEVAL TIME | MESSAGE ID RETRIEVAL TIME | MESSAGE ID RETRIEVAL TIME | MESSAGE ID RETRIEVAL TIME | MESSAGE ID RETRIEVAL TIME  | MESSAGE ID RETRIEVAL TIME  | MESSAGE ID RETRIEVAL TIME  | MESSAGE ID RETRIEVAL TIME  | MESSAGE ID RETRIEVAL TIME  | MESSAGE ID RETRIEVAL TIME  | MESSAGE ID RETRIEVAL TIME  | MESSAGE ID RETRIEVAL TIME  |
| —                         | —                         | —                         | —                         | —                         | —                          | —                          | —                          | —                          | —                          | —                          | —                          | —                          |
| MAIN CONTENTS TIME STAMP  | MAIN CONTENTS TIME STAMP  | SUB CONTENTS TIME STAMP   | DO NOT SAVE               | DO NOT SAVE               | DO NOT SAVE                | DO NOT SAVE                | DO NOT SAVE                | DO NOT SAVE                | DO NOT SAVE                | DO NOT SAVE                | DO NOT SAVE                | DO NOT SAVE                |
| RECIEVED OUTPUT CONTENTS  | RECIEVED OUTPUT CONTENTS  | MAIN CONTENTS             | MAIN CONTENTS             | NONE                      | OUTPUT CONTENT FROM MEMORY | OUTPUT CONTENT FROM MEMORY | OUTPUT CONTENT FROM MEMORY | OUTPUT CONTENT FROM MEMORY | OUTPUT CONTENT FROM MEMORY | OUTPUT CONTENT FROM MEMORY | OUTPUT CONTENT FROM MEMORY | OUTPUT CONTENT FROM MEMORY |

### EXAMPLE OF THE RELATIONSHIP BETWEEN REPRESENTATIVE SITUATION AND THE MESSAGE ID

|      |   |
|------|---|
| 0x01 | : INTERRUPT THE DISPLAY OF MAIN CONTENTS AND BEGIN THE DISPLAY OF SUB CONTENTS      |
| 0x02 | : INTERRUPT THE DISPLAY OF SUB CONTENTS / RE-INITIATE THE DISPLAY OF MAIN CONTENTS  |
| 0x03 | : INTERRUPT THE DISPLAY OF SUB CONTENTS / RE-INITIATE THE PLAYBACK OF MAIN CONTENTS |
| 0x04 | : TERMINATE THE DISPLAY OF MAIN CONTENTS AND SUB CONTENTS                           |
| 0x05 | : INTERRUPT THE DISPLAY OF MAIN CONTENTS / RESUME THE DISPLAY OF SUB CONTENTS       |

FIG.8

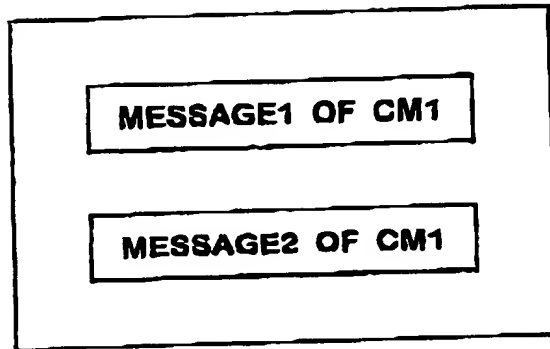


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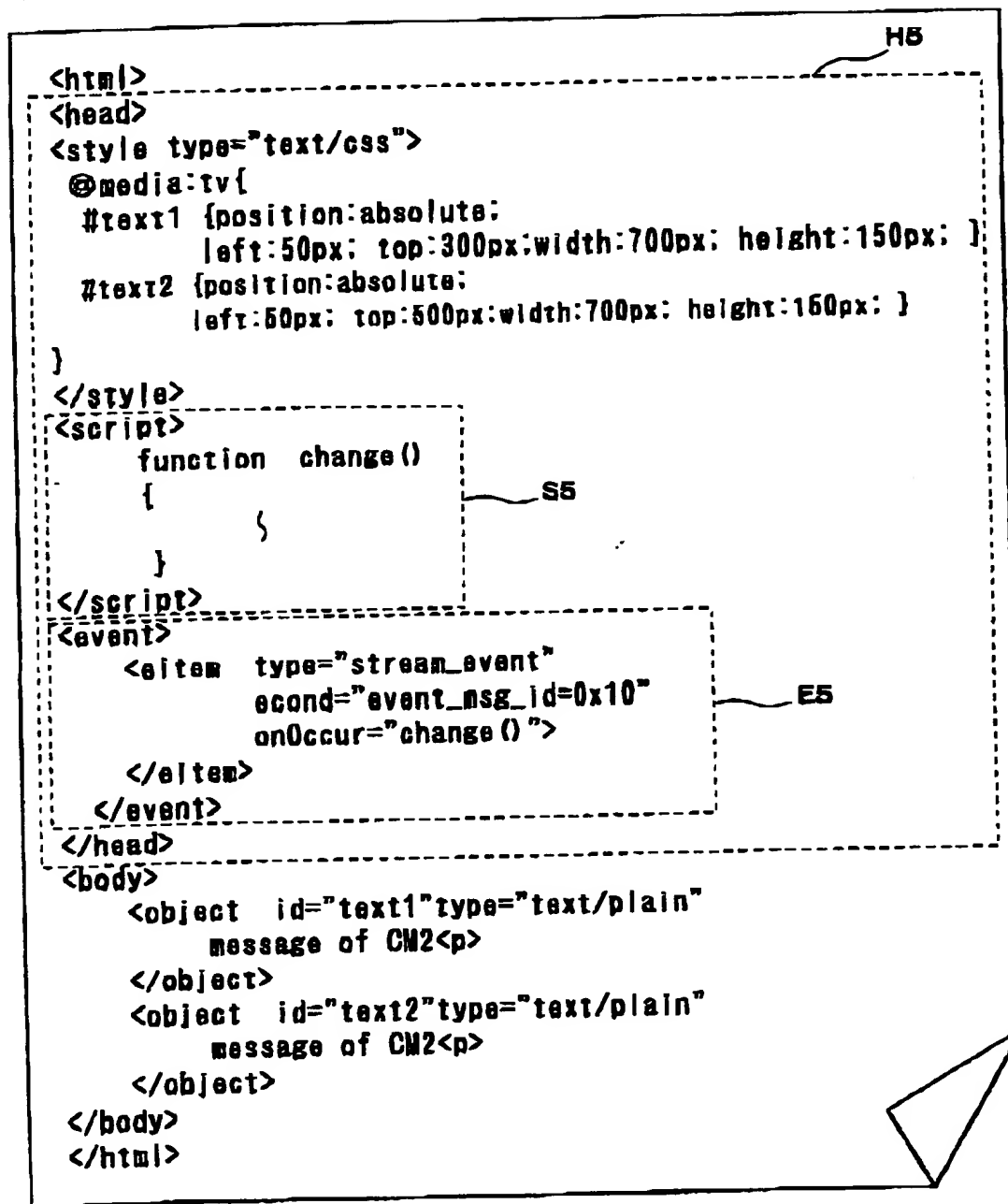
**FIG.9**

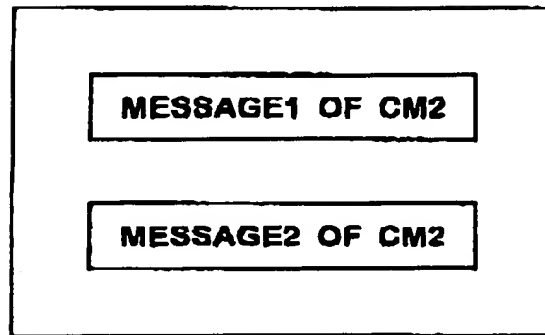
**SCREEN DISPLAY OF CM1**



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FIG.10

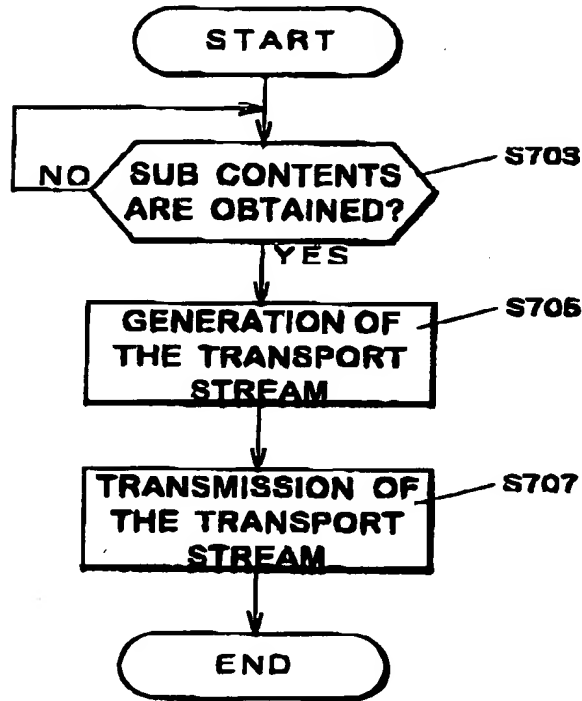


**FIG.11****SCREEN DISPLAY OF CM2**

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**FIG.12**

**OPERATION BY DIGITAL BROADCAST TRANSMISSION DEVICE 81**



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FIG.13

OPERATION BY DIGITAL BROADCAST RECEPTION DEVICE 91

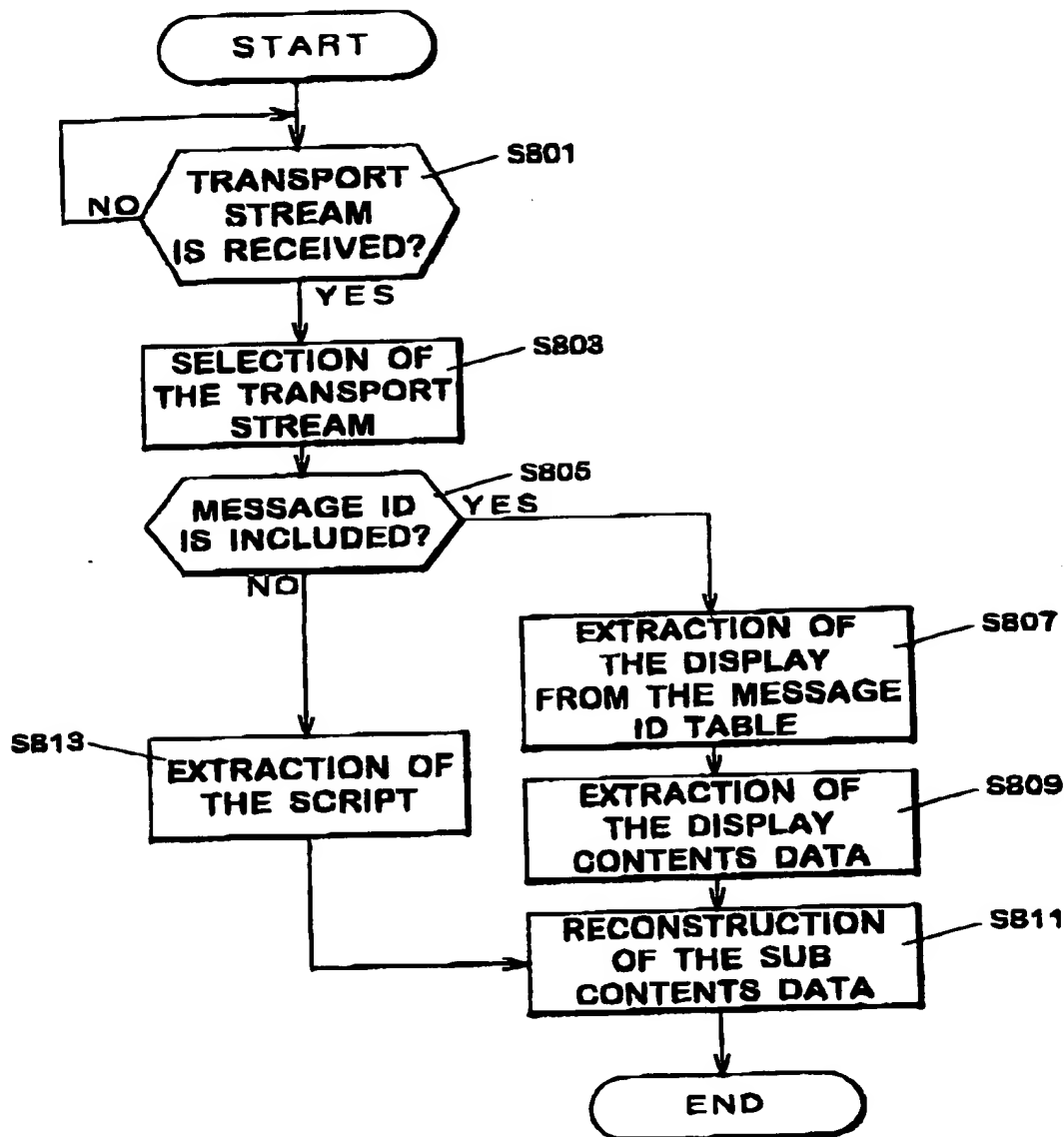


FIG.14

CASE1

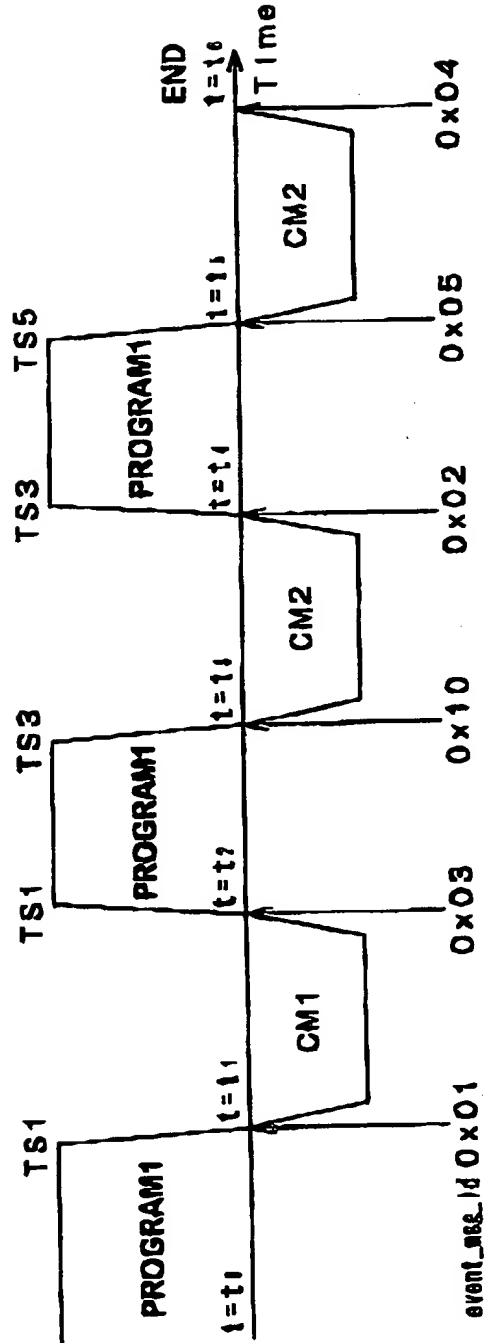




FIG.16

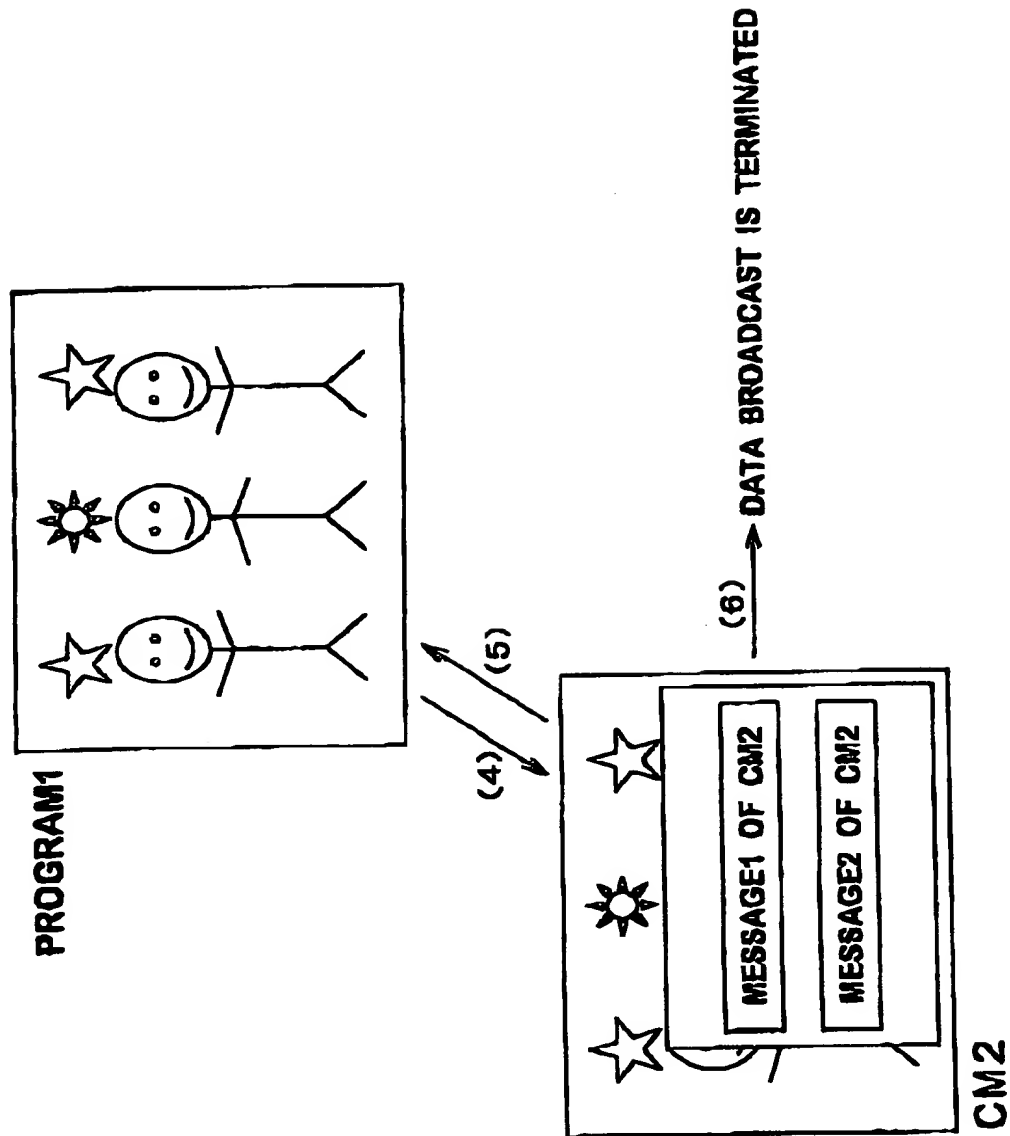




FIG.17

CONCEPTUAL DRAWING OF THE BROADCAST SYSTEM 51

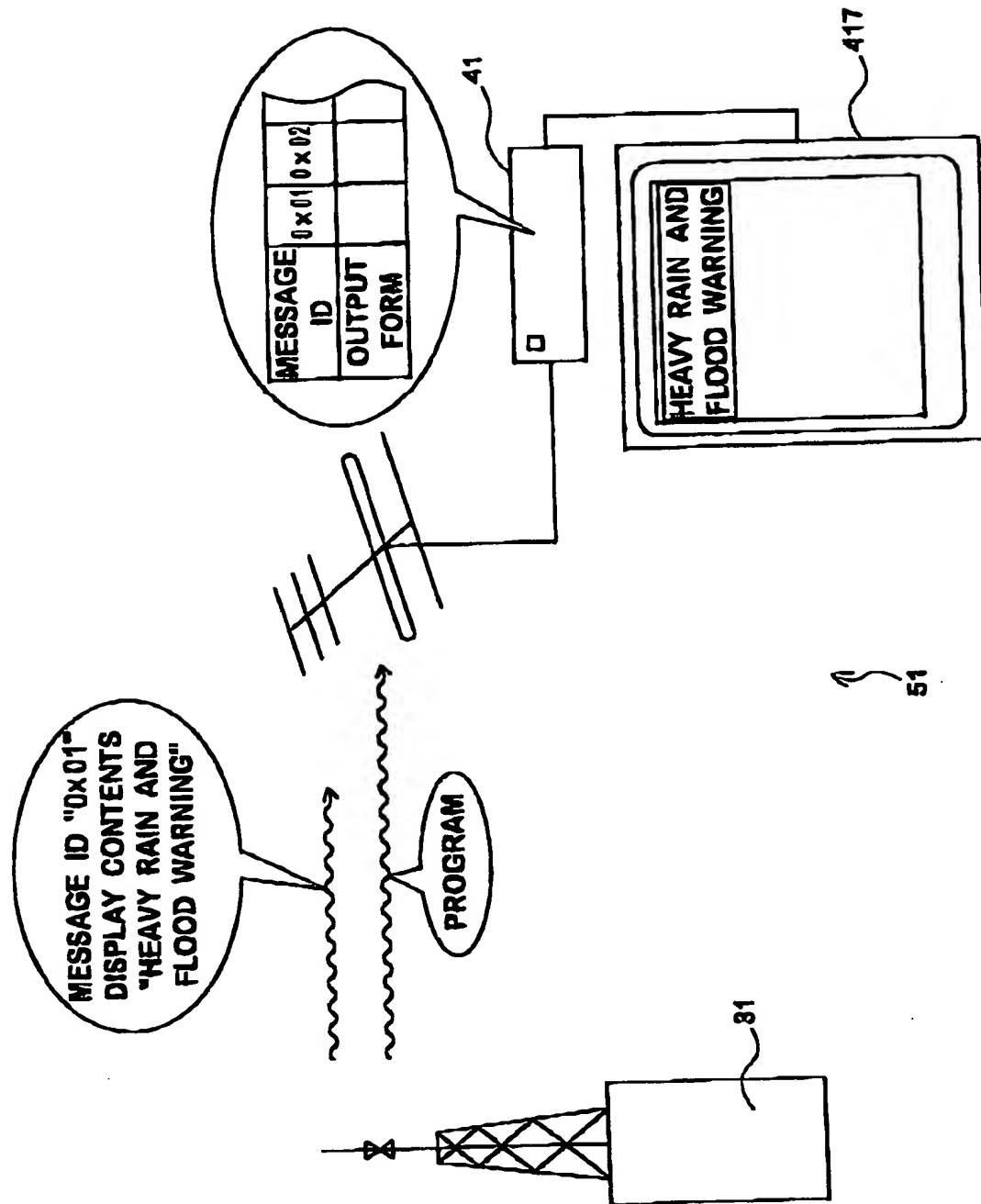


FIG.18

DATA STRUCTURE OF THE REFERENCE TABLE  
OF THE MESSAGE ID AND THE DISPLAY FORM

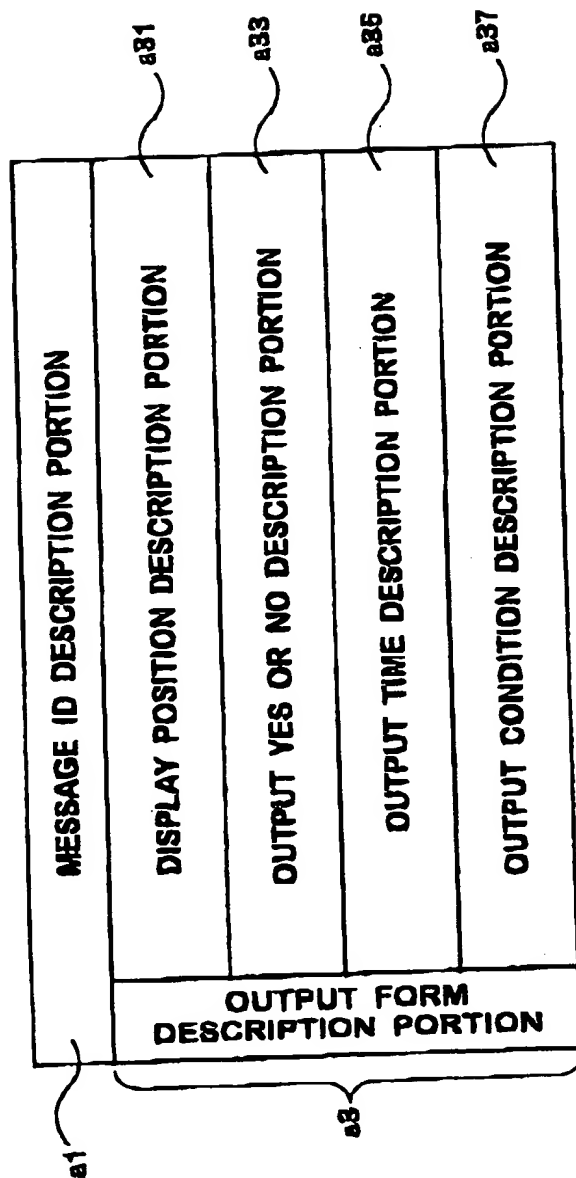
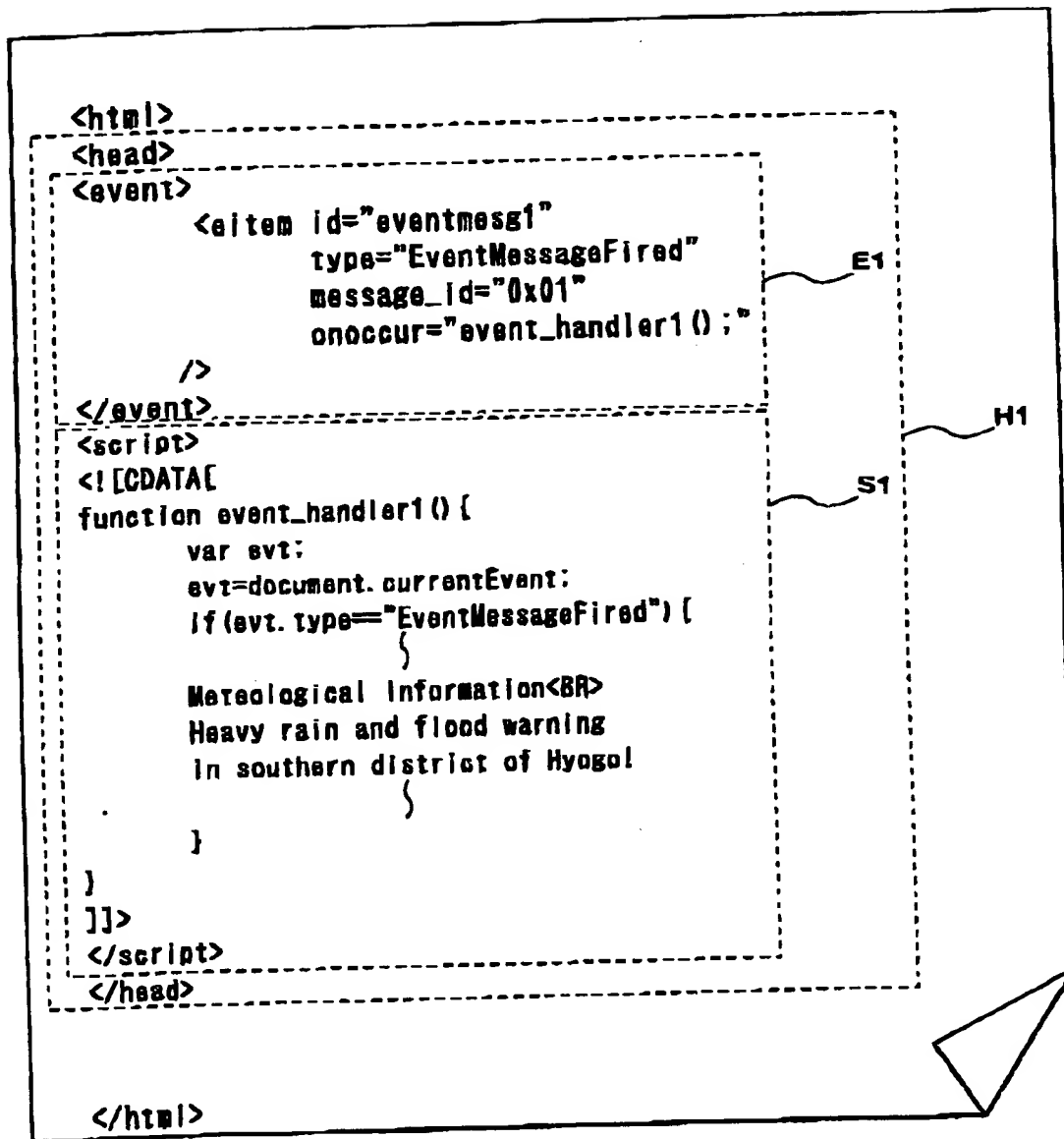


FIG.19

| ID | b1                        |  |  | b2                                 |  |  | b3                                 |  |  | T1  |
|----|---------------------------|--|--|------------------------------------|--|--|------------------------------------|--|--|-----|
|    | 0x01                      |  |  | 0x02                               |  |  | 0x03                               |  |  | b11 |
|    | ACTIVE, 50, 300, 400, 100 |  |  | 50, 300, 400, 100                  |  |  | 50, 300, 400, 100                  |  |  | b13 |
|    | OUTPUT                    |  |  | OUTPUT                             |  |  | OUTPUT                             |  |  | b15 |
|    | —                         |  |  | WHEN THE MESSAGE<br>ID IS OBTAINED |  |  | WHEN THE MESSAGE<br>ID IS OBTAINED |  |  | b17 |
|    | —                         |  |  | SOUND ON                           |  |  | OPEN THE OTHER<br>WINDOW           |  |  | b19 |

FIG.20



**FIG. 21**

A black and white line drawing of a factory with smoke rising from a chimney, next to a train with several passenger cars. The scene is set against a dark background representing a body of water or a night sky.

FIG.22

EXAMPLE OF MESSAGE ID TABLE

| ID NUMBER | POSITION       | CONTENTS   |
|-----------|----------------|--|
| 0x01      | 50,300,700,150 | METEOROLOGICAL INFORMATION HEAVY RAIN AND FLOOD WARNING IN ALL AREA OF OSAKA!          |
| 0x02      | 50,300,700,150 | METEOROLOGICAL INFORMATION HEAVY RAIN AND FLOOD WARNING IN ALL AREA OF HYOGO!          |
| 0x03      | 50,300,700,150 | METEOROLOGICAL INFORMATION HEAVY RAIN AND FLOOD WARNING IN ALL AREA OF KYOTO!          |
| 0x04      | 50,300,700,150 | METEOROLOGICAL INFORMATION HEAVY RAIN AND FLOOD WARNING IN ALL AREA OF NARA!           |
| ---       | ---            | ---  |
| 0x11      | 50,300,700,150 | METEOROLOGICAL INFORMATION HEAVY RAIN AND FLOOD WARNING IN NORTHERN DISTRICT OF OSAKA! |
| 0x12      | 50,300,700,150 | METEOROLOGICAL INFORMATION HEAVY RAIN AND FLOOD WARNING IN SOUTHERN DISTRICT OF OSAKA! |
| ---       | ---            | ---  |
| 0x51      | 50,900,700,150 | EARTHQUAKE INFORMATION ...   |
| ---       | ---            | ---  |
| 0xB9      |                | DISPLAY IN CONFORMANCE WITH THE SCRIPT   |

FIG. 23

CONSTITUTIONAL DIAGRAM OF TRANSMISSION DEVICE AND  
RECEPTION DEVICE IN CONVENTIONAL BROADCAST SYSTEM

